

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **08160347 A**

(43) Date of publication of application: 21 . 06 . 96

(51) Int. Cl.

G02B 27/02
G02B 27/22

(21) Application number: 06301893

(22) Date of filing: 06 . 12 . 94

(71) Applicant: **NIPPON TELEGR & TELEPH
CORP <NTT>**

(72) Inventor: **SUYAMA SHIRO
KATO KINYA
SAKAI SHIGENOBU**

(54) HEAD MOUNTED DISPLAY DEVICE

(57) Abstract:

PURPOSE: To reproduce an image capable of electrically rewriting a three- dimensional image and satisfying all of the adjusting action of the parallax, the convergence and focal distances of eyes by changing a light scattering rate displayed on an optical scanning device, etc., in the depth direction.

CONSTITUTION: Devices 1a4R, 1a4L, composed of optical scanning devices or a display projection devices 1a1R, 1a1L, plural scattering rate controllers 1a2R, 1a2L and lenses 1a3R, 1a3L, are utilized by fitting them to a left and a right eyes, respectively. A light ray is scanned toward the scattering rate controllers 1a2R, 1a2L by means of the optical scanning device or a plane display is projected toward the scattering rate controllers 1a2R, 1a2L by means of the display projection device and the scattering rates of the scattering rate controllers 1a2R, 1a2L are changed by matching with the display. For example, when an image on the position 1a6 is represented, the light scattering rate in the scattering rate controller at the depth corresponding to the position 1a6 of the image for both

eyes from among plural scattering rate controllers is set large and others are set small.

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